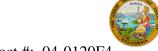
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 99.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-025517 Address: 333 Burma Road **Date Inspected:** 02-Dec-2010

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai

CWI Name: Tian Lei **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** OBG

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector R. Hernandez was present during the time noted above and conducted observations relative to the work being performed.

The QA Inspector randomly observed the following work in progress:

Bay Number 1

This QA inspector assisted in the performance MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel, by the lot method testing procedure. This QA Inspector generated an MT report for this date by inspector lot no. All components were as listed on NWIT notification no. 07617. The member(s) is/are identified as OBG Barrier Rails identified as component. The weld designations reviewed are as follows:

1. E2-SB2-007-126,128,130,065,069,073,075,082.

Bay Number 2

Performed verification VT for the component(s) identified as OBG Segment SEG3015U-001 comprised components listed as VP3014 and VP3015. This QA inspector signed green tag #15384.

This QA inspector observed ZPMC QC MT technicians and ZPMC personnel removing cracks found under the

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

guidelines of critical weld repair no. B-CWR-2314. This inspector monitored ZPMC personnel preheating all welds prior to performing grinding operations to remove cracks. This inspector also monitored excavation depths that entered into parent metal with a Bridge-cam inspection tool.

The following is a list of welds that contain transverse cracks and are being removed by ZPMC personnel by grinding. the number in parenthesis is the depth of excavation that entered into the parent metal on plate X5055A and X5055B.

600(4mm) 933(0mm) 281(0mm) 283(4mm) 462(6mm) 556(4.5mm) 647(4mm) 695(0mm) 743(0mm) 791(0mm) 887(7mm) 935(4.5mm) 420(4mm) 465(4mm) 555(4mm) 646(4mm)

Bay Number 3

Performed verification VT for the component(s) and corresponding welds for component on OBG Segment SEG3020K for the following designated weld number(s): 073~082, 263~272, 195~199, 229~233, 367~376, 393~400, 212~216, 246~250, & 011, also performed verification VT for the component(s) and corresponding welds for component on OBG Segment SEG3020M for the following designated weld number(s): 012. This QA inspector signed green tag #15381.

Performed verification VT for the component(s) identified as OBG Longitudinal Diaphragm for component(s) listed as LD3043-001, This QA inspector signed green tag #15226.

This QA inspector assisted in the performance MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. All components were as listed on NWIT notification no. 07590. The member(s) is/are identified as OBG Longitudinal Diaphragm component. The weld designations reviewed are as follows:

2. LD3040-001-063, 064, 053, 054, 040, 042, 050, 035, 041, 051, 037, 038, 039, 060, 061, 062, 058, 059, 048, 049, 034, 036, 010~021, 093~095, 102~104, 092, 096, 077~079, 086~088, 076, 080, 024~027, 030~033.

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. All components were as listed on NWIT notification no.(s) 07591. The member(s) is/are identified as OBG Floor Beam assembly. The weld designations reviewed are as follows:

1. FB3272-001-001, 004, 005, 008, 009, 012, 015, 018, 021, 022, 025, 028, 031, 032, 035, 041, 044, 046, 050, 052, 055, 058, 061, 064, 065, 068~076.

FCAW welding of complete join penetration welds located on Longitudinal Diaphragm components identified as LD3041B-001 as identified on weld repair data sheet B-WR-17948 for weld no. 197. Welder is identified as welder no. 055564. The welding variables recorded by ZPMC QC identified as Tian Lei appeared to comply with applicable WPS(s) WPS-345-SMAW-3G(3F)-repair.

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

Unless otherwise noted above all items observed on this day appeared to be in general compliance with the applicable contract documents.



Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 1500-0042-02372, who represents the Office of Structural Materials for your project.

Inspected By:	Hernandez, Rene	Quality Assurance Inspector
Reviewed By:	Hall,Steven	QA Reviewer